



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: LITTLE *et al.*

Serial No.: 08/786,988

Filed: January 23, 1997

For: **SYSTEMS AND METHODS FOR  
PREPARING AND ANALYZING  
LOW VOLUME ANALYTE ARRAY  
ELEMENTS**

Art Unit: 1743

Examiner: Bex, P.

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202, on this date.

11/22/02  
Date

Stephanie Seidman

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TRANSMITTAL LETTER

Commissioner for Patents  
U.S. Patent & Trademark Office  
P. O. Box 2327  
Arlington, VA 22202

Sir:

Transmitted herewith are an Amendment in response to the Office Action mailed May 22, 2002, with a check (\$460) for the requisite fees for a three month extension of time and a return postcard. If a Petition for extension of time is needed, this paper is to be considered such Petition.

**Extension fee for response within the third month:**

(X) By a small entity.....\$460.00.

- ☒ The Commissioner is hereby authorized to charge the deficiency in the above check and any fee that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,  
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By: \_\_\_\_\_  
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D. G. Hance

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### AMENDMENT

Commissioner for Patents  
U.S. Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Dear Sir:

Responsive to the Office Action, mailed May 22, 2002, entry of the  
amendment and consideration of the following remarks are respectfully requested.

#### IN THE CLAIMS:

Please cancel claim 62 without prejudice or disclaimer.

Please replace claims 1, 5, 25, 31, 40, 63, 64 66 and 70 with amended  
claims 1, 5, 31, 40 and 70 as follows:

1. (Thrice Amended) A method for forming an array of a sample material on  
a surface of a substrate and analyzing the sample material in the resulting array,  
comprising:

providing a vesicle that has an interior chamber containing a fluid comprising  
a solvent containing the sample material;

disposing said vesicle adjacent to a first location on said surface of the  
substrate without contacting the surface with the vesicle;

providing mechanical pressure to the interior of the vesicle to eject from said  
chamber a defined and controlled 0.2 to 20 nanoliter volume of the fluid to  
dispense said fluid at said first location of said surface of the substrate;

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